NNSA
National Nuclear Security Administration

ACTIVE-ACTIVE FILE COLLABORATION AT THE
NATIONAL NUCLEAR SECURITY ADMINISTRATION

PROJECT PROFILE

PEER SOFTWARE SOLUTION

PeerLink®

CUSTOMER'S PLATFORM

NetApp FAS 2000 Series
Windows Server

LOCATIONS

NNSA Headquarters,
Field offices

INDUSTRY

U.S. Federal Government, Nuclear Security
and Regulation

CHALLENGES BEFORE PEERLINK

High performance file sharing and collaboration environ-
ment with up-to-date file replicas maintained locally

KEY BENEFITS THROUGH PEERLINK

Faster performance and current, up-to-date local file
replicas.

THE CHALLENGE

With a mission focused on enhancing national security through
the military application of nuclear science, the National Nuclear
Security Administration (NNSA) was established by Congress in
2000 as a semi-autonomous agency within the U.S. Department
of Energy.

NNSA has a broad range of responsibilities that include main-
taining the safety, security, and effectiveness of the U.S. nuclear
weapons stockpile without conducting nuclear tests; reducing the
proliferation of nuclear weapons and materials; providing the U.S.
Navy with safe and effective nuclear propulsion; and providing
capabilities for responding to nuclear counterterrorism and other
related incidents.

Including three national laboratories, the ability to securely share
information amongst the organization's scientists, engineers,
security experts and program managers is paramount to enabling
NNSA to meet the objectives of its four mission areas. However,
when it came to the ability to access and update shared project
files including Word, Excel, presentations and graphics files, users
were reporting that email, FTP, shared folders and other available
techniques to support this activity were not optimal. They needed
file sharing infrastructure that would provide local users with fast
access without degrading the performance of their Wide Area
Network (WAN) when large files were being updated and replicat-
ed from site-to-site.

Looking ahead, they also wanted a solution that utilized version
management to ensure file integrity, as multiple users could be
updating and saving the same files while at different locations.

Since NetApp supplied high performance storage systems that
NNSA recently implemented, the NNSA team naturally reached
out to them to see if they had an available solution. After some
initial research, the consulting NetApp engineer recommended
PeerLink, a file sharing and collaboration solution from Peer
Software.

Based on DFSR+® technology, PeerLink provides distributed file
service capabilities such as real-time sync for maintaining file
replicas at multiple locations, and utilizes byte-level replication to
minimize the performance impact on WAN connections. PeerLink
also incorporates distributed file locking to maintain file integrity,
and was fully compatible with the NetApp storage systems imple-
mented by NNSA.

NetApp
Alliance Partner

Autodesk
Authorized Developer

Microsoft Partner
Gold Application Development

www.peersoftware.com | **PEER**™

RESULTS

After some additional research and consulting with the
support team at Peer, the NNSA team decided to download and install
a fully functional trial version of PeerLink.
They quickly setup a collaboration environment between the multiple
data centers, and then introduced it to the users at NNSA who would
now be able to utilize shared file replicas that were closest to them
geographically.

Since implementation, the NNSA team reported that
PeerLink has met their needs while receiving an almost immediate
positive response from their user base
which appreciates the faster performance and confidence that their
local file replicas are current.

ABOUT US

Peer Software develops
data management solutions
addressing the unique
challenges related to data
backup, replication and
collaboration in a WAN
environment since 1993.

US OFFICE

P   +1 703 763 7700
F   +1 703 763 7705

EMEA OFFICE

P   +49 89 3090593 -22
F   +49 89 3090593 -11

www.peersoftware.com | PEER™